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APPROVALS

YEAR(S):

1996



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

December 13, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. P-269-269-228

Mr. B.D. Shaw
Amoco Production Company
200 Amoco Court
Farmington, New Mexico 87401

RE: FINAL SAN JUAN BASIN PIT CLOSURE REPORTS

Dear Mr. Shaw:

The New Mexico Oil Conservation Division (OCD) has completed a review of Amoco Production Company's (Amoco) August 9, 1994 "AMOCO PRODUCTION COMPANY PIT CLOSURE VERIFICATIONS" which were submitted on behalf of Amoco by their consultant Blagg Engineering, Inc. This document contains "PIT REMEDIATION AND CLOSURE REPORTS" for 57 unlined pits in the San Juan Basin of Northwestern New Mexico.

The OCD's review of the above referenced document is addressed below:

A. The pit closure/soil remediation activities conducted at the sites listed below are **approved**.

1. Elliott GC S#1 (Separator pit)	Unit M, Sec. 33, T30N, R09W.
2. Jack Frost B#2E (Blow pit)	Unit H, Sec. 27, T27N, R10W.
3. Jack Frost B#2E (Separator pit 1)	Unit H, Sec. 27, T27N, R10W.
4. Jack Frost B#2E (Separator pit 2)	Unit H, Sec. 27, T27N, R10W.
5. Jack Frost D#1 (Blow pit)	Unit E, Sec. 26, T27N, R10W.
6. Jack Frost D#1 (Separator pit)	Unit E, Sec. 26, T27N, R10W.
7. Heath GC H#1 (Blow pit)	Unit F, Sec. 08, T29N, R09W.
8. Heath GC K#1 (Separator pit)	Unit G, Sec. 32, T30N, R09W.
9. Heath GC K#1 (Blow pit)	Unit G, Sec. 32, T30N, R09W.
10. Heath GC L#1 (Blow pit)	Unit A, Sec. 32, T30N, R09W.
11. Heath GC N#1 (Blow pit)	Unit G, Sec. 08, T29N, R09W.
12. Keyasyahi #1 (Blow pit)	Unit B, Sec. 25, T28N, R09W.

Please be advised that OCD approval does not relieve Amoco of liability if remaining contaminants are found to pose a future threat to surface water, ground water, human health or the environment. In addition, OCD approval does not relieve Amoco of responsibility for compliance with any other federal, state or local laws and/or regulations.

- B. The pit remedial activities conducted at the sites listed below are satisfactory. However, according to the reports, onsite landfarming and/or composting actions are still continuing at the sites. Subsequently, the OCD cannot issue final closure approval at this time and approval of closure actions at these sites is **denied**. Please resubmit final closure reports for these sites upon completion of the landfarming and/or composting activities. The final reports will include the results of the soil remediation levels achieved, the laboratory analyses and associated quality assurance/quality control data and the disposition of the remediated soils.

1. Bolack #2E (Dehy pit)	Unit J, Sec. 19, T28N, R08W.
2. Bolack #2E (Blow pit)	Unit J, Sec. 19, T28N, R08W.
3. Bolack #2E (Tank drain pit)	Unit J, Sec. 19, T28N, R08W.
4. Bolack #2E (Separator pit)	Unit J, Sec. 19, T28N, R08W.
5. Eskeenalwood GC B#1 (Separator)	Unit A, Sec. 25, T28N, R09W.
6. Florence #117E (Tank drain pit)	Unit H, Sec. 35, T29N, R09W.
7. Florance C #8E (Blow pit)	Unit E, Sec. 19, T28N, R08W.
8. Florance C #8E (Tank drain pit)	Unit E, Sec. 19, T28N, R08W.
9. Florance C #8E (Separator pit)	Unit E, Sec. 19, T28N, R08W.
10. Florance C #8E (Dehy pit)	Unit E, Sec. 19, T28N, R08W.
11. Florance C LS #9 (Blow pit)	Unit L, Sec. 30, T28N, R08W.
12. Florance C LS #12 (Dehy pit)	Unit E, Sec. 19, T28N, R08W.
13. Florance C LS #14 (Separator pit)	Unit O, Sec. 19, T28N, R08W.
14. Jack Frost A#1 (Separator pit)	Unit E, Sec. 26, T27N, R10W.
15. Jack Frost A#1 (Blow pit)	Unit E, Sec. 26, T27N, R10W.
16. Heath GC D#1 (Blow pit)	Unit G, Sec. 08, T29N, R09W.
17. Heath GC D#1A (Blow pit)	Unit F, Sec. 08, T29N, R09W.
18. Keyasyahi #1 (Separator pit)	Unit B, Sec. 25, T28N, R09W.
19. Lackey #1E (Blow pit)	Unit I, Sec. 23, T28N, R09W.
20. Lackey #1E (Separator pit)	Unit I, Sec. 23, T28N, R09W.
21. Lackey #1E (Dehy pit)	Unit I, Sec. 23, T28N, R09W.
22. Lackey #1E (Tank drain pit)	Unit I, Sec. 23, T28N, R09W.
23. McCulley LS #3 (Separator pit)	Unit L, Sec. 24, T28N, R09W.
24. McCulley LS #3 (Tank drain pit)	Unit L, Sec. 24, T28N, R09W.
25. Riddle F LS #11 (Separator pit)	Unit E, Sec. 20, T28N, R08W.
26. Schwerdtfeger A LS #10A (Tank pit)	Unit D, Sec. 31, T28N, R08W.
27. Schwerdtfeger A LS #10A (Dehy pit)	Unit D, Sec. 31, T28N, R08W.
28. Schwerdtfeger A LS #10A (Blow pit)	Unit D, Sec. 31, T28N, R08W.
29. Schwerdtfeger A LS #10A (Separator)	Unit D, Sec. 31, T28N, R08W.
30. Warren #1E (Separator pit)	Unit D, Sec. 25, T28N, R09W.
31. Warren #1E (Tank drain pit)	Unit D, Sec. 25, T28N, R09W.
32. Warren A LS #1A (Separator pit)	Unit C, Sec. 25, T28N, R09W.
33. Warren A LS #1A (Blow pit)	Unit C, Sec. 25, T28N, R09W.
34. Warren A LS #1A (Dehy pit)	Unit C, Sec. 25, T28N, R09W.
35. Warren LS #4 (Dehy pit)	Unit P, Sec. 13, T28N, R09W.
36. Warren LS #4 (Separator pit)	Unit P, Sec. 13, T28N, R09W.
37. Warren LS #5 (Blow pit)	Unit G, Sec. 24, T28N, R09W.
38. Warren LS #5A (Blow pit)	Unit J, Sec. 24, T28N, R09W.
39. Warren LS #5A (Dehy pit)	Unit J, Sec. 24, T28N, R09W.

- C. The final pit remedial contaminant levels at the sites listed below are in excess of the OCD's recommended remediation levels. Consequently, the OCD cannot issue final closure approval and approval of closure actions at these sites is **denied**. The OCD requests that Amoco address the extent of the remaining contamination at these sites. The OCD will reconsider issuing closure approval upon resubmission of pit closure forms which address the remaining extent of contamination at the sites. The resubmitted forms should include the completed form and all pertinent information related to the extent of contamination, the results of the soil remediation levels achieved, the results of the soil remediation levels achieved, the laboratory analyses and associated quality assurance/quality control data and the disposition of the remediated soils.

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| 1. Florence #117E (Separator pit) | Unit H, Sec. 35, T29N, R09W. |
| 2. Heath GC D#1A (Separator pit) | Unit F, Sec. 08, T29N, R09W. |
| 3. Heath GC H#1 (Separator pit) | Unit F, Sec. 08, T29N, R09W. |
| 4. Warren LS #5 (Tank drain pit) | Unit G, Sec. 24, T28N, R09W. |
| 5. Warren LS #5A (Separator pit) | Unit J, Sec. 24, T28N, R09W. |

- D. Ground waters at the sites listed below are contaminated with petroleum related constituents in excess of New Mexico Water Quality Control Commission ground water standards and the extent of ground water contamination at the sites has not been determined. Therefore, approval of these pit closure forms is **denied**. The OCD requests that Amoco investigate the extent of contamination and, if necessary, remediate contaminated ground water pursuant to Amoco's November 21, 1995 ground water investigation/remediation work plan which was approved by the OCD on November 29, 1995.

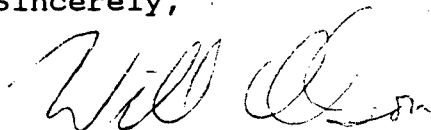
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| 1. Florence #117E (Tank drain pit) | Unit H, Sec. 35, T29N, R09W. |
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To simplify the approval process for both Amoco and OCD, the OCD requests that Amoco submit all future pit closure reports only upon completion of all closure activities including onsite landfarming or composting of contaminated soils. The reports should include the completed form and all pertinent information related to the extent of contamination, the results of the soil remediation levels in the pits and landfarms, all laboratory analyses and associated quality assurance/quality control data and the disposition of all remediated soils.

Mr. B.D. Shaw
December 13, 1996
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If you have any questions, please call me at (505) 827-7154.

Sincerely,

A handwritten signature in cursive script, appearing to read "Will Olson".

William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Aztec District Office
Bill Liess, BLM Farmington District Office
Nelson Velez, Blagg Engineering, Inc.
Charmaine Tso, Navajo Nation EPA